

**LEMBAR  
HASIL PENILAIAN SEJAWAT SEBIDANG ATAU PEER REVIEW  
KARYA ILMIAH : PROSIDING**

Judul Karya Ilmiah : Remaining Life Assessment of Superheater Tube in Boiler of Coal Fired Power Plant  
 Jumlah Penulis : 3 Orang  
 Status Pengusul : Penulis ke-2  
 Identitas Prosiding : a. Judul Prosiding : MATEC Web of Conferences, The 2nd International Joint Conference on Advanced Engineering and Technology (IJCAET 2017) and International Symposium on Advanced Mechanical and Power Engineering (ISAMPE 2017)  
 b. ISBN/ISSN : eISSN: 2261-236X  
 c. Thn Terbit, Tempat Pelaks. : 2018, Bali, Indonesia  
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d. Kelengkapan unsur dan kualitas terbitan/prosiding(30%)	8,00	8,00	8,00
<b>Total = (100%)</b>	<b>28,50</b>	<b>27,50</b>	<b>28,00</b>
<b>Nilai Pengusul = (40% x 28,00)/2 = 5,60</b>			

Semarang, 14 Mei 2019

Reviewer 2

Rusnaldy, S.T., M.T., Ph.D.  
 NIP. 197005201999031002  
 Unit Kerja : T. Mesin FT UNDIP

Reviewer 1

Dr. Agus Suprihanto, S.T, M.T.  
 NIP. 197108181997021001  
 Unit Kerja : Teknik Mesin FT UNDIP

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c. Kecukupan dan kemutakhiran data/informasi dan metodologi (30%)	9,00		8,50
d. Kelengkapan unsur dan kualitas terbitan/prosiding(30%)	9,00		8,00
<b>Total = (100%)</b>	<b>30,00</b>		<b>28,50</b>
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Semarang, 14 Mei 2019

Reviewer I

  
Dr. Agus Suprihanto, S.T., M.T.

NIP. 197108181997021001

Unit kerja : Teknik Mesin FT UNDIP

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d. Kelengkapan unsur dan kualitas terbitan/prosiding(30%)	9,00		8,00
<b>Total = (100%)</b>	<b>30,00</b>		<b>27,50</b>
<b>Nilai Pengusul = (40% x 27,50)/2 = 5,50</b>			

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- Kelengkapan unsur dan kualitas terbitan:**  
Artikel diterbitkan oleh MATEC Web of Conference, terindeks Scopus. (nilai: 8,00).

Semarang, 14 Mei 2019

Reviewer 2



Rusnaldy, S.T., M.T., Ph.D.  
 NIP. 197005201999031002

Unit kerja : Teknik Mesin FT UNDIP

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2nd International Joint Conference on Advanced Engineering and Technology, IJCAET 2017 and  
International Symposium on Advanced Mechanical and Power Engineering, ISAMPE 2017; Bali;  
Indonesia; 24 August 2017 through 26 August 2017; Code 135617

## Remaining Life Assessment of Superheater Tube in Boiler of Coal Fired Power Plant (Conference Paper) (Open Access)

Muhajir, H.  Haryadi, G.D. , Widodo, A. 

Departement of Mechanical Engineering Faculty of Engineering, UNDIP, Semarang, 50275, Indonesia


### Abstract

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Risk Based Inspection (RBI) would be able to establish an effective structural integrity management program, which reduces plant downtime, industry and regulatory burdens, and continue to maintain plant safety. The object of this research is final superheater of boiler coal fired power plant. Both straight tube and elbow tube of final superheater is in a medium risk category. Elbow tube has higher risk ranking because of the higher corrosion rate due to fly ash corrosion. The remaining life of straight tube is about 26 years and elbow tube is only about 7 years using corrosion rate calculations. Base on risk ranking and remaining life assessment, inspection planning can be developed for the next 3 years and prioritize at an elbow tube of the final superheater section. It can be one of the considerations for the company to pending yearly inspection in order to improve cost efficiency and reduce downtime. © The Authors, published by EDP Sciences, 2018.

### SciVal Topic Prominence

Topic: Boilers | Superheaters | Superheater tubes

Prominence percentile: 74.902 

### Indexed keywords

Engineering  
controlled terms:

Accident prevention Boilers Coal Coal fueled furnaces Corrosion rate Fly ash  
Fossil fuel power plants Inspection Maintenance Risk assessment Superheaters

Engineering  
uncontrolled terms

Coal-fired power plant Cost efficiency Inspection planning Integrity Management Program  
Remaining life Remaining life assessments Risk based inspection (RBI) Risk categories

Engineering main  
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(1983) *Metallurgical Failures in Fossil Fired Boilers*, p. 22. Cited 167 times.  
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Title, date and place of the conference

The 2nd International Joint Conference on Advanced Engineering and Technology (IJCAET) and International Symposium on Advanced Mechanical and Power Engineering (ISAMPE)  
August 24-26, 2017  
Bali, Indonesia

Proceedings editor(s):

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Bagus Hario Setiadji, Ph.D  
Dr. Han Ay Lie  
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Volume 159 (2018)

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B.H. Setiadji, A.L. Han, A. Widodo, J.D. Setiawan, O. Kurdi and J.U.D. Hatmoko (Eds.)

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